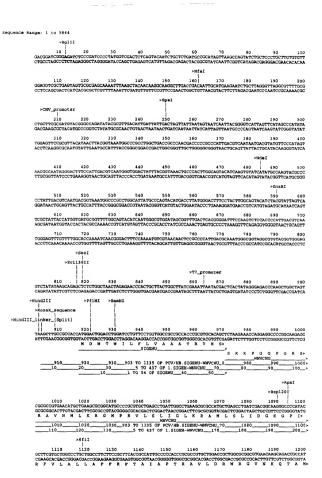
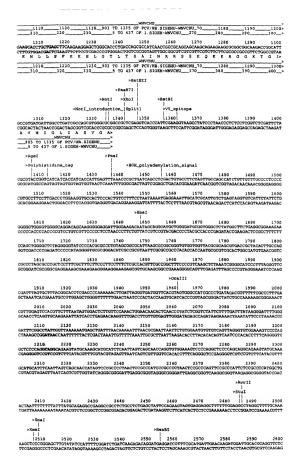
Docket Number: UPN-4105 (M2351)
Title: Compositions and Methods of Using Capsid
Protein from Flaviviruses and Pestiviruses
Inventors: David B. Weiner and Joo-Sung Yang
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Docket Number: UPN-4105 (M2351)
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Protein from Flaviviruses and Pestiviruses
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Protein from Flaviviruses and Pestiviruses
Inventors: David B. Weiner and Joo-Sung Yang
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2610 2620 CGGCCGCTTGGGTGGAGAGGC	2630 TATTCGGCTATGA	2 64 0 CTGGGCACAA	2650 CAGACAATC	2660 SGCTGCTCTG	2670 ATGCCGCCGT	2680 GTTCCGGCTG	2690 PTCAGCGCAGGG	 2700 CGCCC	
GCCGGCGAACCCACCTCTCCG	ATAAGCCGATACT	GACCOGTGTT	>PstI	CGACGAGAC	TACGGCGGCA	CAAGGCCGAC >MscI	AGTCGCGTCCC	cgcggg	
2710 2720	2730	2740	2750	2760	2770	2780	2790	2800	
GGTTCTTTTTGTCAAGACCGA CCAAGAAAAACAGTTCTGGCT	CCTGTCCGGTGCC GCCACGGCCACGG	CTGAATGAAC GACTTACTTG	TGCAGGACGA	AGGCAGCGCG	SCTATCGTGG	CTGGCCACGA GACCGGTGCT	CGGGGGGTTCCT CGCCGGGAAGGA	PGCGCA ACGCGT	
>Tth111I									
2810 2820 GCTGTGCTCGACGTTGTCACT	2830	2840	2850	2860	2870	2880	2890	2900	
CGACACGAGCTGCAACAGTGA	CTTCGCCCTTCCC	TGACCGACGA	TAACCCGCTT	CACGGCCCC	STCCTAGAGG	ACAGTAGAGI	CCTTGCTCCTG CGAACGAGGAC	GCTCT	
2910 2920	2930	2940	2950	2960	2970	2980	2990	3000	
AAGTATCCATCATGGCTGATG	Caatgeggegget Gttaegeegeega	CCATACGCTT CCTATGCGAA	SATCCGGCTA CTAGGCCGA1	ICCTGCCCAT IGGACGGGTA	rcgaccacca NGCTGGTGGT	AGCGAAACAT TCGCTTTGT#	CGCATCGAGCG AGCGTAGCTCGC	AGCACG POSTGC	
3010 3020	3030	3040	3050	3060	3070	3080	3090	3100	
TACTOGGATGGAAGCCGGTCT ATGAGCCTACCTTCGGCCAGA	TGTCGATCAGGAT ACAGCTAGTCCTA	GATCTGGACG. CTAGACCTGC	AAGAGCATCA TTCTCGTAGT	nggggetege receegageg	CGGTCGGCTT	CTGTTCGCCA GACAAGCGGT	AGGCTCAAGGCG CCGAGTTCCGC	CGCATG	
3110 3120	3130	3140	3150	3160	3170	3180	3190	3200	
CCCGACGGCGAGGATCTCGTC GGGCTGCCGCTCCTAGAGCAG	GTGACCCATGGCG CACTGGGTACCGC	ATGCCTGCTT TACGGACGAA	GCCGAATATY	AADOTOOTA	AATGGCCCCC	TOTOTOTOTO	NO A THOUGH CONTROL	200000	
>RerII									
3210 3220	3230	3240	3250	3260	3270	3280	3290	3300	
TGGGTGTGGCGGACCGCTATC ACCCACACCGCCTGGCGATAG	AGGACATAGCGTT TCCTGTATCGCAA	GGCTACCCGT CCGATGGGCA	SATATTGCTC CTATAACGAC	CTTCTCGAAC	SCGGCGAATG	ancreacency	ALCO COLCO PORT	PTACGG	
3310 3320	3320	1240	2250	2260	2270	2200	2200	3400	
TATOGCOGCTCCCGATTCGCA ATAGCGGCGAGGGCTAAGCGT	GCGCATCGCCTTC	TATCGCCTTC	PTGACGAGTT AACTGCTCA	CTTCTGAGO	GGACTCTGG	GGTTCGCGA/ CCAAGCGCTT	ATGACCGACCA	AGCGAC	
3410 3420	3430	2440	2450	2460	2420	2400	3400	1000	
GCCCAACCTGCCATCACGAGA CGGGTTGGACGGTAGTGCTCT	TTTCGATTCCACC	GCCGCCTTCT.	ATGAAAGGTT	GGGCTTCGG.	AATCGTTTTC	CGGGACGCC	GCTGGATGATC	TTCCAG	
3510 3520	3530	3540	3550						
CGCGGGGATCTCATGCTGGAG	TTCTTCGCCCACC	CCAACTTGTT	TATTGCAGCT	3560 TTATAATGGT	3570 TACAAATAAA	3580 GCAATAGCAT	3590 CACAAATTTCA	3600 ATAAAC	
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>BsmI					>Bst1107I				
3610 3620 AAGCATTTTTTTCACTGCATT	3630 CTAGTTGTGGTTT	3640 GTCCAAACTC	3650 ATCAATGTAT	3660 PCTTATCATG	3670	3680	3690	3700	
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3710 3720			INGPINANT	AGAATAGTAC.	AGACATATGG	CAGCTGGAGA	AGCTAGAGCTT ATCGATCTCGAA	GCGTA CCGCAT	
ATCATGGTCATAGCTGTTTCC	3730	3740	3750	AGAATAGTAC	AGACATATGG	CAGCTGGAGA	ATCGATCTCGAA	CCGCAT	
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ATCATGGTCATAGCTGTTTCC TAGTACCAGTATCGACAAAGG 3810 3820	TGTGTGAAATTGT ACACACTTTAACA 3830	TATCOGCTCA ATAGGCGAGT 3840	3750 CAATTCCACI GTTAAGGTG1	3760 ACAACATACG PGTTGTATGC 3860	3770 AGCTGGAAGC TCGGCCTTCG	3780 ATALAGTGTA TATTTCACAT	3790 NAAGCCTGGGGT TTCGGACCCCA	3800 SCCTAA EGGATT	
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ATCATGGTCATAGCTGTTTCC TAGTACCAGTATCGACAAAGG 3810 3820 TGAGTGAGCTAACTCACATTA ACTCACTCGATTCAGTGTAAT 3916 3920	TGTGTGAAATTGT ACACACTTTAACA 3830 ATTGCGTTGCGCT TAACGCAACGCGA	TATCOGCTCA ATAGGCGAGT 3840 CACTGCCCGC GTGACGGGCG	3750 CAATTCCACA GTTAAGGTGS 3850 TTTCCAGTCG AAAGGTCAGG	3760 ACAACATACG ACAACATACG TGTTGTATGC 3860 GGGAAACCTG CCCTTTGGAC	3770 AGCTGGAAGC TCGGCCTTCG 3870 TCGTGCCAGC AGCACGGTCG	3780 ATALAGTGTA PATTTCACAT 3880 TGCATTAATG ACGTAATTAC	3790 AAAGCCTOGGOTMTTCOGACCCCAN 3890 GAATCGGCCAACCTTAGCCOGTTG	3800 SCCTAA COGATT 3900 SCCGCOG CCGCOG	
ATCATGGTCATAGCTGTTTCC TAGTACCAGTATCGACAAAGG 3810 3820 TGAGTGAGTGAATTCACATTA ACTCACTCGATTGAGTGTAAT 3910 3920 GGAGAGGCGGTTTCCGTATTC	TOTGTGAAATTGT ACACACTTTAACA 3830 ATTGCGTTGCGCT TAACGCAACGCGA 3930	TATCOGCTCA ATAGGCGAGT 3840 CACTGCCCGC GTGACGGGCG 3940 TTGCTCGCTC	3750 CAATTCCACA GTTAAGGTGG 3850 TTTCCAGTCCAAAGGTCAGG	3760 ACAACATACG ACTTGTATGC 3860 GGGAAACCTG CCCTTTGGAC	3770 AGCTGGAAGC TCGGCCTTCG 3870 TCGTGCCAGC AGCACGGTCG	3780 ATALAGTGTA TATTTCACAT 3880 TGCATTAATC ACGTAATTAC 3980	3790 AAAGCCTOGGOTTTCOGACCCAAC 3890 BAATGGCCAAC CTTAGCCOGTTG	3800 SCCTAA COGATT 3900 SCCGCOG COCCGC	
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ATCATOSTCATAGOTOTTTCC TAGTACCACATAGO TAGTACCACATAGO TAGATAGOTAACTCACATTA ACTCACTCACTTCAGTTCAGTTCACTTCAC	TOTGTGAAATTGT IACACACTTTAACA 3830 ATTGCOTTGCGCT TAACGCAACGCGA 3930 IGGCGCTCTTCCGC CCGCGAGAAGGCG 4030 AGAATCAGGGGAT	TATCOGCTCA ATAGGCGAGT 3840 CACTGCCGGC GTGACGGGGG 3940 TTCCTCGCTC AAGGAGCGAG 4040 AACGCAGGAA	3750 CAATTCCACE GTTAAGGTGT 3850 TTTCCAGTCG AAAGGTCAGC 3950 ACTGACTCGC TGACTGAGCC	3760 ACAACATACG ACTACATACG ASTAGAACCTG 3860 BGGAAACCTG CCTTTGGAC 3960 TGGGGCTCGG GACGCGAGCC	3770 RGCCGGAAGC TCGGCCTTCG 3870 TCGTGCCAGC RGCACGGTCG 3970 TAGCAAGCGAAAGC CCAGCAAAAGC	3780 ATAAAGTGTA TATTTCACAT 3880 TGCATTAATC ACGTAATTAC 3980 GGCGGGGGGGCGCGCGCGGGGGGGGGGGGGGGGGGGG	3790 AAAGCCTGGGGT PTTCGGACCCAN 3890 SAATGGGCAACC PTTAGCCGGTTG 3990 GGTATCAGCTCA CCATAGTCGAGT 4090	3800 SCCTAA DGGATT 3900 SCGCOG CGCOCC 4000 CTCAAA 3AGTTT 4100	
ATCHOOPCHAGE TOTTTEE TAGTACCAPATACCAPTTA 3810 3820 TOAD THACT CAPTTA ACT CAPTTAGATTAGATTAA 3916 3920 GOAD MOGGOTT TOCTTATTA COTCTCCCCCARAGGATTACCATTATC COCCCATTATTCCATTAGATTAACCATTACCACCCCCATTATCCATTATCCACCCCCATTATCCATTA	TOTGTANÀTTOT ACACTTTANA 3830 ATTGGTTGGGT TANGGANGGGA 3930 MGGGGTGTTGGG CCGGGAGAAGGG 4030 MGGATCAGGGGAT TCTTAGTGCCCTA 4130	TATCOGCTCA ATAGGCGAGT 3840 3840 TTCCTCGCTC AAGGACCGAG 4040 AACGCAGGAA ATGCCTCTCCTT 4140	3750 CAATTCCACI GTTAAGGTOI 3850 TTTCCAGTCC AAAGGTCACC 3950 ACTGACTGACC 4050 AGGACATGTC TCTTGTACAC	3760 ACARCATACE 3760 ROTTGTATGC 3860 BOGAAACCTG CCTTTGGAC 3960 TGCGGTGGG GACGCGAGCC 4060 BAGCAAAAGG CTCGTTTTCC	3770 AGCTGGAAGC TCGGCCTTCG 3870 TCGTCCAGC AGCACGGTCG 3970 TCGTTCGGCT AGCAAGCCGA 4070 CCAGCAAAAG	3780 3780 3780 3780 3780 3780 3880 380 3980 3980 3980 3980 3980 398	3790 MAGGCTOGGGT PTTCGGACCCA 3890 MATCGGCCAAC TTAGCCGATG 3990 GGTATCAGCTCA CCATAGTCGAGTC 4090 GGTATAAAAGGCC CCATTTCCGG	3800 GCCTAA GGGATT 3900 GCGCGG GGGCGC 4000 GTCAAA 3AGTTT 4100 GCGTTG GGGAAC	
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ATCATGGTCATAGCTGTTTCATCATCATCATCATCATCATCATCATCATCATCATC	TOTOTQUÂNTITATA ACACACTITATA 3830 ATTGOTTGGGC 3930 GGGCTCTTCGGC GCGCGAGAAGGCG AGAATCAGGGAA 4010 AGAATCAGGGAAT TCTTAGTCCCTA 4130 CGGCCCCCTGAGG GCGGGGGACTGC 4230 TCGTGGGGGGGACTGC	TATCOGCTEM ATAGGCGGAP 3840 CACTGCCGG GTGACGGGCG 3940 TTCCTCGCTC AAAGGACGAG 4040 AAACGCAGGAA TTOCTACATA TCCTACATA TCCTACATA TCCTACACAT TCCTACACA TCCTACACA TCCTACACA TCCTACACACA TCCTACACACA TCCTACACACAC	3750 CANTICCAC GETTAAGGTOT 3850 TTTCCAGTCC AAAGGTCAGC AAAGGTCAGC TGACTGAGC 4050 AAAGACATGTC TCTTGTACAC 4150 AAATCGACGC TTTAGCCCCTTTAGCCCCTTGAGCCCGAGAGCAGAGGAGAGAGA	GRATAGTAC 3160 3160 3160 3160 3160 3160 3160 3160	AGACATATOG 3770 AGCTOGAACA 1870 1870 1870 1870 1870 1970 1970 1970 1970 1970 1970 1970 19	ACCORACION CONTROL CON	3790 3790 JAACCTOGGACCCAA 3890 JAACTGGCCAACCCAA 3890 JAACTGGCCAACCCAACCCAACCCAACCCAACCCAACCCA	3800 3CCTMA 5CGCAT 3900 3CCCCCC 4000 5CGCCCC 4000 5CGCAAC 4200 5CGCAAC 4200 ACCAGG 5CGCAAC 4300 5CCTTC 5CGAAAG	
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